



Cytoskeleton: Volume 12 (Hardback)

By J. Hesketh

ELSEVIER SCIENCE TECHNOLOGY, United Kingdom, 1996. Hardback. Condition: New. Language: English . Brand New Book. It is now clear from a wide range of research that cytoplasm is not merely a buffered solution of proteins and enzymes but contains a series of complex filamentous structures. The cytoskeleton is the collective term given to these filaments. There is a considerable amount of data available on the protein composition of the major filament systems (microfilaments, microtubules, and intermediate filaments) but we are still comparatively ignorant about the role of the cytoskeleton in cell physiology. However such major cytoplasmic components (actin and tubulin, the monomeric constituents of microfilaments and microtubules, are major cell proteins) must have important roles to play in cell function, and investigations into the functional role of the cytoskeleton currently represent a major area of cell biological research. In recent years rapid advances in molecular biology have begun to influence research on the cytoskeleton. This trend is sure to continue and the techniques of molecular biology and genetics are set to make major contributions to our understanding of the cytoskeleton, as illustrated in this volume by several reviews; the use of transfection techniques by Ben-Ze'ev, the power of *Drosophila*...

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